IRAP

IRAP
International Research and Applications

Webinar on the FY 2018 Federal Funding Opportunity for the International Research and Applications Project (IRAP)

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IRAP FY2018 Webinar

- IRAP Overview
- Drivers and Linkages in Climate and Health
- IRAP FY18 FFO priorities
- Submitting an LOI and Full Proposal
- Q&A

IRAP: Overview

- The NOAA International Research and Applications Project (IRAP) supports activities linking interdisciplinary research and assessments to practical risk management challenges in regions where weather and climate affect U.S. interests at home and abroad

- IRAP- interdisciplinary, competitive grants program is housed in the NOAA Climate and Societal Interactions (CSI) Division of NOAA's Climate Program Office, which is part of the NOAA Office of Oceanic and Atmospheric Research (OAR/CPO/CSI)

- Climate and Societal Interactions (CSI) Division manages 4 socially-framed, interdisciplinary research programs:
  - SARP (water)
  - COCA (coasts)*
  - RISA (regional) *
  - **IRAP (international)***

  * Currently soliciting proposals

IRAP: Objectives

- Apply CSI methodologies and approaches to areas outside of the US in support of scientific, technical and decision making interests and international partnerships
- Generate tools, knowledge and institutional networks for more informed decision making
- Co-production of knowledge and information through partnerships (across institutional, disciplinary and national boundaries)
- Enhance the return on investments in physical science research and services through the integration of social science
- Address climate across multiple time scales, including sub-seasonal to seasonal and beyond
- Provide opportunities for innovation around specific scientific or socio-economic challenges that can then be considered and extended to other issues and/or regions, or can help shape other research and service agendas relevant to NOAA's mission, as well as our those of partners
- Provide insight and knowledge about climate impacts and the use of this information in planning and preparation to inform decision making related to national interests within and outside of the US, including partnerships with other countries and international organizations

IRAP: Current Project

- IRAP established in 2012, but builds on 25 years of interdisciplinary applied research and capacity building activities conducted by NOAA and partners
- Integrating Climate Information and Decision Processes for Regional Climate Resilience (2013-2018)
    - Currently, IRAP funding supports a 5-year effort led by a multidisciplinary team at the IRI of Columbia University, and the University of Arizona
    - Focus on the development of regional climate climate services for enhanced risk management through integrated interdisciplinary research, experimental product development (in partnership with regional experts), and evaluation
    - Iterative process – linking physical, social sciences and user needs
    - Caribbean, India, Bangladesh

Weather, Climate and Society: Connecting the Dots through Decision Support Research

- Climate and weather events such as droughts, heavy rains, flooding, heatwaves and severe storms have substantial implications for human health and well-being

- In an increasingly global society, these impacts can have cascading consequences for the health and well-being of communities and states within US borders as well as our investments in the private sector, international development and national security

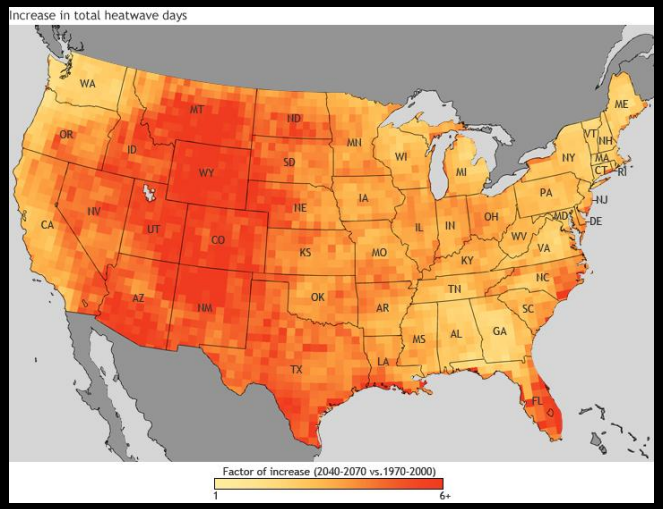
- Understanding how climate and weather events abroad affect US interests in the health, international development and national security sectors is a critical step in the use of weather and climate-related knowledge, products and early warning and the development of integrated information systems to address practical challenges of risk management, and economic growth and stability

Climate and Health—a growing concern

- Connects to ongoing National Integrated Heat Health Information System goals, including to reduce health risks from extreme heat on multiple time scales: https://toolkit.climate.gov/nihhis/ and the Global Heat Health Information Network: GHHIN.org
- Outgrowth of the US Global Change Research Program's Climate and Health Assessment--research needs section: https://www.globalchange.gov/health-assessment
- Directly responding to US Climate and Health Science Plan process "Predicting Climate-Sensitive Diseases to Protect Public Health and Strengthen National Security"
  - Identified subseasonal to seasonal predict of health risks gap
  - Identified science and decision maker gap
  - Identified global/national challenges
- Ongoing part of the USGCRP Climate Change and Human Health Sustained Assessment focus
- **Links to CDC and Building Resilience Against Climate Extremes**
- **Links to other Agencies and Institutions—NEW PARTNERSHIPS**!
- US/Canada/Mexico have several agreements and mutual interests
- European Commission and UK already funding—allows for partnerships
- Belmont Forum—international funding mechanism, will be focusing on climate, environment and health

National Integrated Heat Health Information System (NIHHIS): Climate Services to Reduce Heat Risk

- NOAA and CDC launched in 2015
- Goals:
  - Addressing health risks from heat at multiple time scales
  - Shared learning across scales and projects
  - Informing Research, Product and observational needs
  - Engaging decision makers to build resilience and take action
- Local/Regional Pilots, linked with global
- Interagency Partnerships (8 active agencies)
- Private Sector Partnerships (NGO, Corporate)
- Building the Global Heat Health Information Network (GHHIN)



The National Integrated Heat Health Information System weaves together existing pieces, identifies information needs and helps to develop needed climate services.

NIHHIS will facilitate an integrated approach to providing a suite of decision support services to reduce heat related illness and death

The National Integrated Heat Health Information System

NATIONAL INTEGRATED HEAT HEALTH INFORMATION SYSTEM

- Institutional Capacity and Partnerships
- Data and Forecast Products
- Heat Parameters and Health Outcomes
- Engagement & Communication Strategies

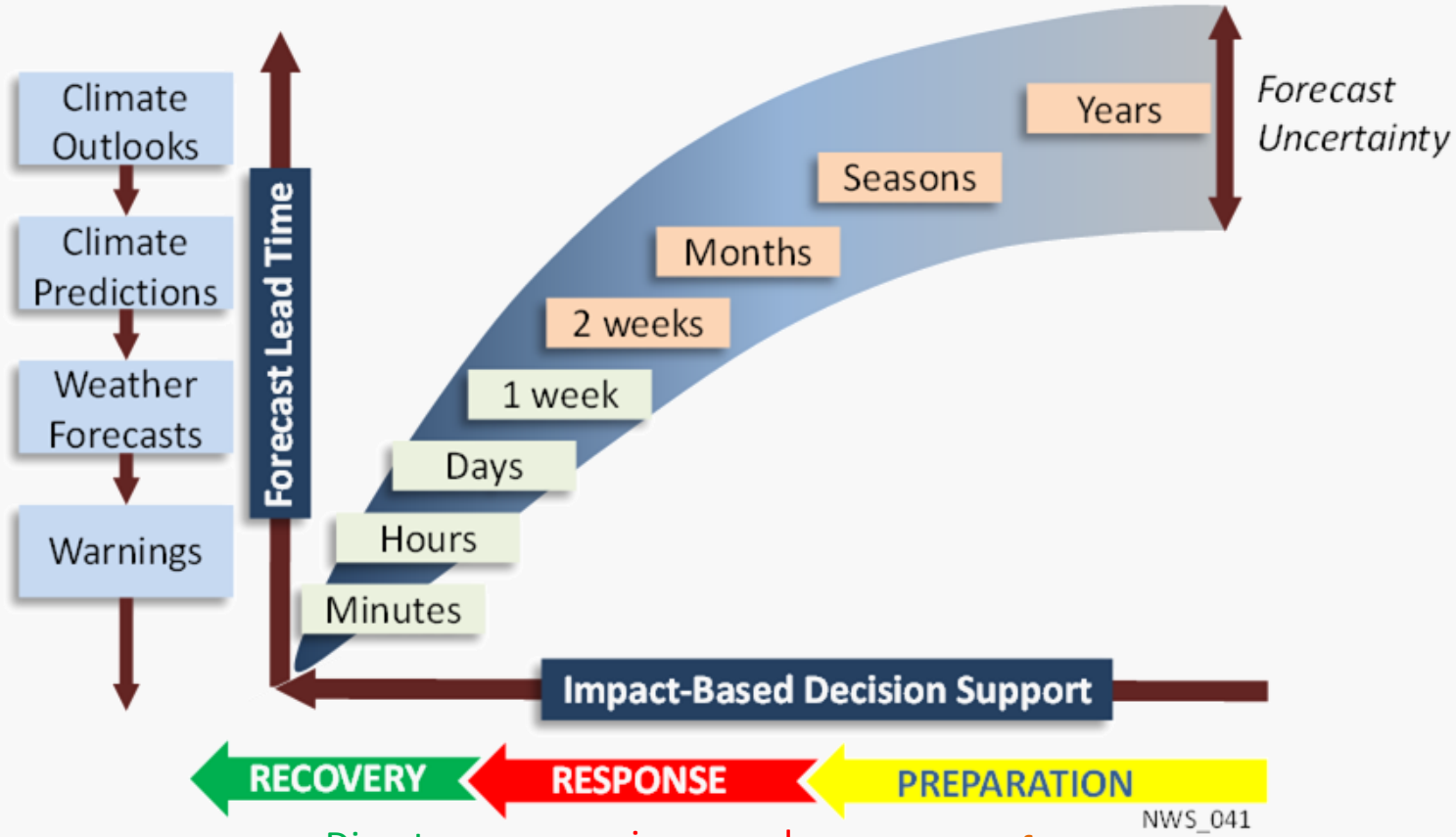
NIHHIS Framework:
core questions for all pilots

- NIHHIS White House Launch — June 2015
- Chicago Heat-Health Workshop — July 2015
- OSTP Sub-IPC Interagency Partnership Development — March 2015
- NYC-Northeast Pilot Development — February 2016
- Heat focused Health Forum for SASCOF8 — April 2016
- NIHHIS Web Launch — May 2016
- Inaugural NOAA Summer Heat Outlook — May 2016
- Launch of Global Heat Health Information Network (GHHIN) — June 2016
- First Pilot in RGB Region (El Paso) — July 2016
- CHI-Midwest Pilot Development — Fall 2016

NIHHIS Network: international partners and local-regional pilots

NIHHIS interagency web portal (climate.gov/nihhis)

Information is Needed Across **All Timescales** for Action



e.g. Disaster /emergency management response

e.g. increased monitoring, surveillance, control, water management

e.g. Infrastructure development and urban planning, budget planning

IRAP FY 18 Funding Priorities: Decision Support Research on Climate-Sensitive Health Risks

- In FY 18, IRAP will apply the CSI interdisciplinary research approach to enhancing risk management in the health sector through the use of climate knowledge and information on timescales of subseasonal to seasonal, and beyond as appropriate

- Health risks could include:
  - temperature related mortality and illness
  - Infectious and vector borne diseases
  - Flooding due to extreme events such as hurricanes
  - Air quality impacts
  - Water and food-borne illnesses
  - Nutrition
  - Food and water distribution

- Two priorities in the FY 18 IRAP FFO:

  1) Research and Applications on Climate-Sensitive Health Risks in Transboundary Regions of the US, in partnership with the NOAA RISA Program

  2) Developing and Using Subseasonal and Seasonal Global Health Risk Maps, Prediction Tools and Information to Anticipate and Manage Climate-Sensitive Health Risk

IRAP Focus 1 – Potential topics

- Proposals are encouraged to address one or more of the following broad topics:
    - Increased **understanding of the impacts** of subseasonal to seasonal climate, and stimulation of the development and use of related products and knowledge
    - Identification of **casual linkages, and solutions** for reducing risk through use of climate info
    - Demonstration of the **role of innovation in coordinating climate and weather services across borders** through contributions to early warning systems or transboundary resource management approaches
    - Inspiration of the **production of information that could be used in planning and preparation** designed to anticipate, mitigate and prevent health threats (e.g., disease outbreaks, mortality and morbidity)
    - Identification, elucidation and testing of the **institutional pathways and partnerships to effectively use predictive information** and enhance resilience at multiple time scales

IRAP Focus 1 – Decision Support Research and Applications in Transboundary Regions of US, in Partnership with NOAA/RISA

- Understanding, predicting and preventing climate-sensitive health risks in the context of the socio-economic well-being and stability of communities and institutions that intersect with countries in one or more of these 5 transboundary regions:
    - Mexico and Central America
    - Caribbean
    - Pacific Islands
    - Arctic
    - Canada

IRAP Focus 1 - Partnerships

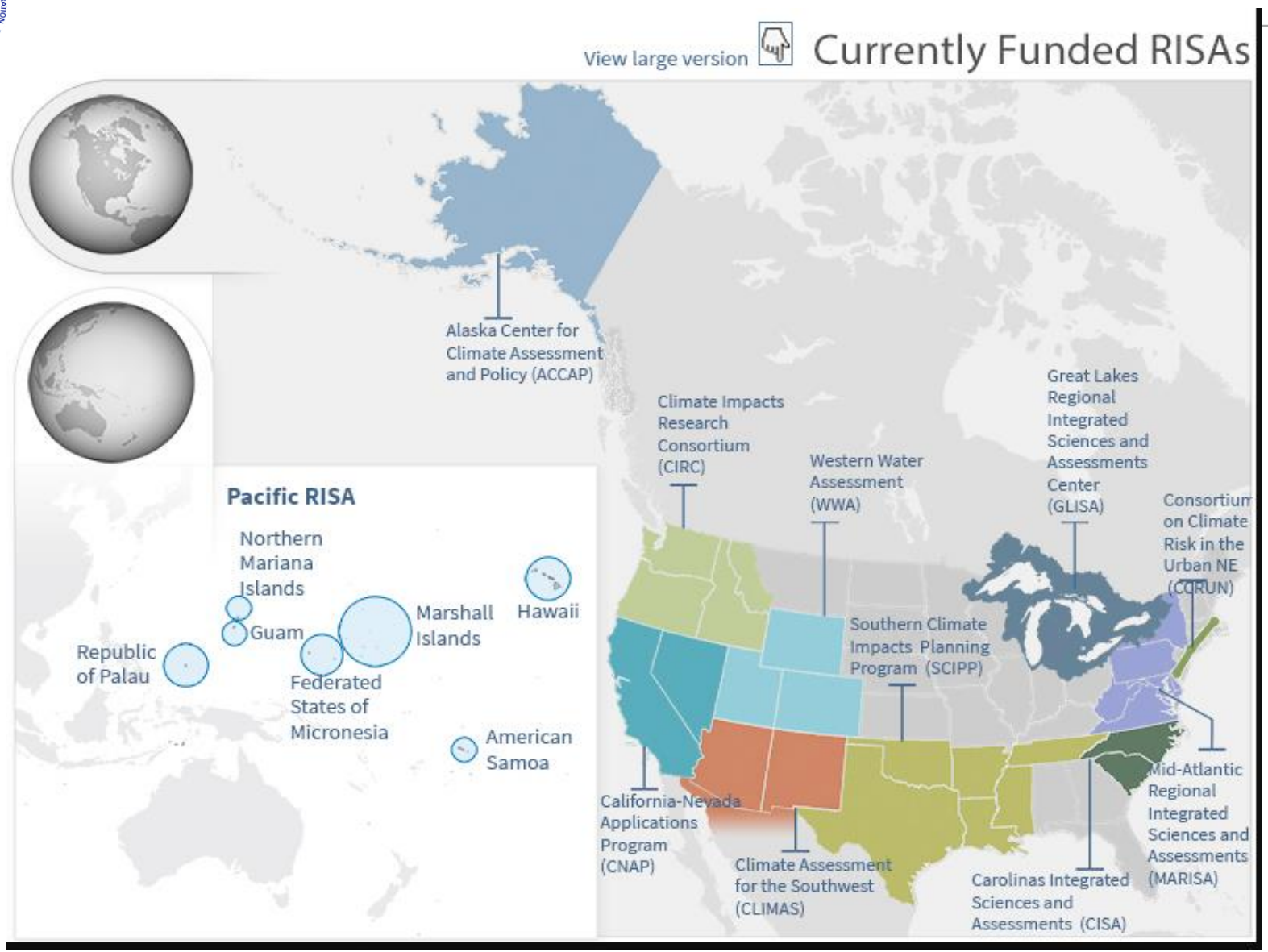
- The IRAP FY 18 competition is seeking proposals that connect to and expand the capacity of the NOAA/CSI RISA networks – **each proposal must have at least one Co-PI from an existing RISA team**

- Proposals should feature collaboration among scientists from multiple disciplines, decision makers and other stakeholders (including state, local, Federal agencies, private/NGO)

- Applicants are encouraged to connect to the network of NOAA research and services (e.g., NWS, NOS, OAR, NESIDS, NMFS) and integrated information systems such as NIHHIS pilots or partners and the CDC Climate Ready States and Cities grantees.

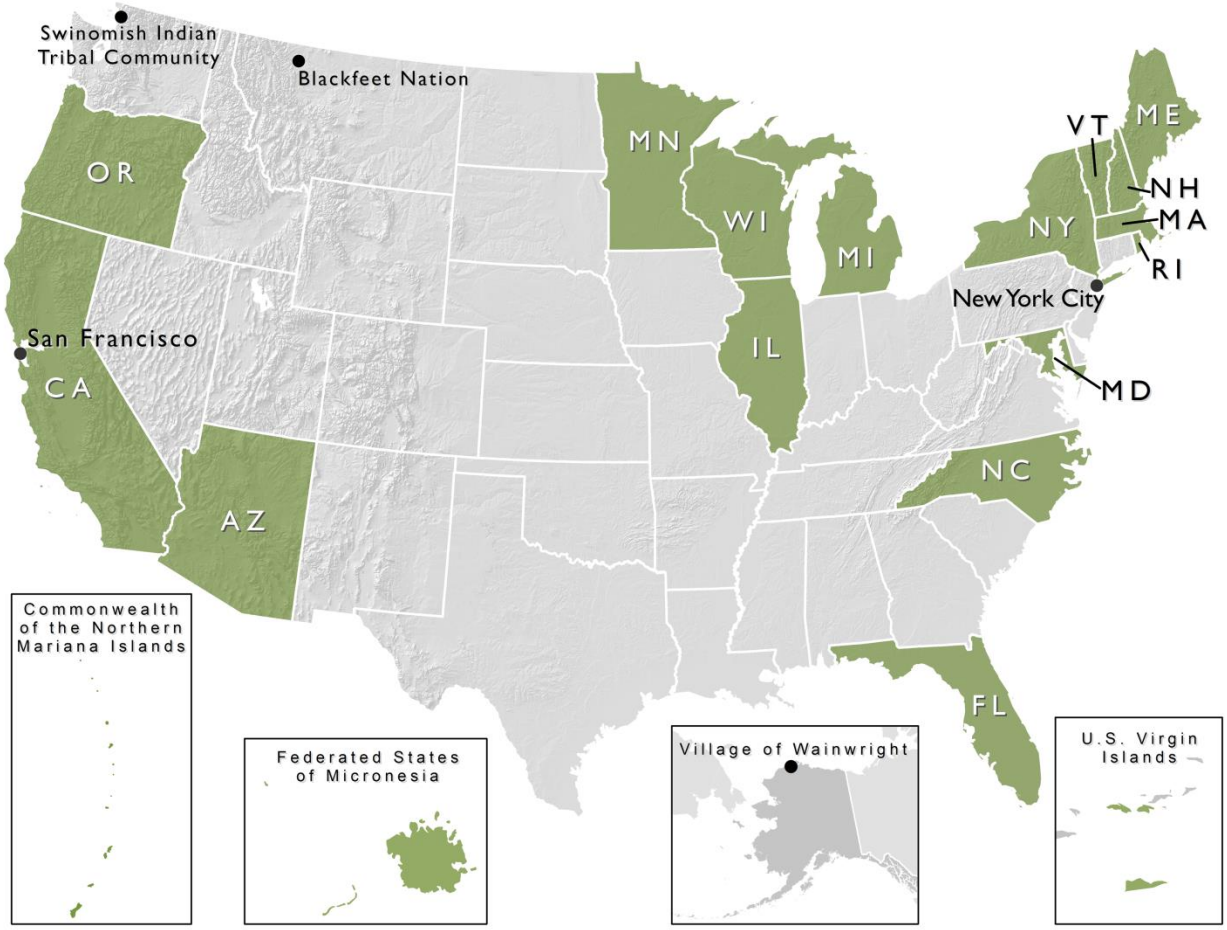
- Proposals should include public health and related state and local decision makers

RISA Teams and Regions



http://cpo.noaa.gov/Meet-the-Divisions/Climate-and-Societal-Interactions/RISA

Centers for Disease Control and Prevention: Climate-Ready States & Cities Initiative Grantees



https://www.cdc.gov/climateandhealth/crsci_grantees.htm

IRAP Focus 2 – Developing and Using Subseasonal and Seasonal Global Health Risk Maps, Prediction Tools, and Information to Anticipate and Manage Climate-Sensitive Health Risks

- Build on existing activities and **develop both the technical and institutional capacity to produce and use** a global health risk map on time scales of weeks to months

- Envisioned as a collaborative pilot project to identify information needs and institutional pathways needed to assess and predict climate-sensitive health risks around the globe that are likely to affect U.S. interests at home and abroad – **activities should build on existing global hazard risk and mapping efforts and include partnerships responsible for making actual decisions**

- Proposals should **demonstrate and advance concepts, techniques and network capacities** for developing and using global heal risk maps and associated tools (e.g., decision support calendars, monthly health outlooks)

IRAP Focus 2 – Partners

- Proposals are encouraged to include relevant institutional representatives relevant to the scope of the challenge (e.g., Dept of Defense, NOAA, US Dept of State, USAID, HHS, states, private sector)

- No requirement to include a RISA PI, however, we will be encouraging linkages between the two foci as appropriate

Anticipated Funding Levels for IRAP FY 18

- $1.5 M total for FY 18, *pending budget appropriations and the availability of funds*
  - ($1.2 M) Focus 1, Transboundary - up to $350K per year, for a period of 1-2 years
  - ($300K) Focus 2, Global health risk maps - $150-300K per year for a period of 1-2 years

LOI and Proposal Due Dates

- Letters of Intent are due 5pm ET, January 5, 2018 via email to Lisa.Vaughan@noaa.gov
  - 2 pages (concise summary)
  - LOIs are not required but helpful prior to proposal development
  - Refer to info page 11 of the FFO for details

- Full Proposals are due 5pm ET, March 16, 2018 via http://www.grants.gov. Faxed or email copies cannot be accepted!
  - Refer to pages 11-25 of the FFO for details

- Make sure all of your accounts (Grants.gov, System for Award Management) are up to date well in advance of the submission deadline.
  - Refer to pages 15-17 of FFO

Download and read thoroughly:

1. Full FFO (http://cpo.noaa.gov/Portals/0/Grants/2018/NOAA-OAR-CPO-2018-2005445.pdf)

2. IRAP information sheet (http://cpo.noaa.gov/Portals/0/Grants/2018/IRAP-INFORMATION-SHEET-FY2018.pdf)

3. Contact Lisa Vaughan for additional information (Lisa.Vaughan@noaa.gov)

4. Questions?

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